AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

- 1. (currently amended) An apparatus comprising:
- (a) a holder adapted to secure a cast metal part; and
- (b) a cleaner dispersing system operable to remove residual casting material from the cast metal part; wherein the casting material is made using a <u>water-soluble</u> disintegration additive.
- 2. (original) An apparatus according to Claim 1, wherein said cleaner dispersing system comprises at least one spray head.
- 3. (original) An apparatus according to Claim 2, wherein said cleaner dispersing system additionally comprises a fluid recirculator operable to collect and recycle cleaning fluid.
- 4. (original) An apparatus according to Claim 1, wherein said cleaner dispersing system comprises a reservoir operable to immerse the metal part in cleaning fluid.
- 5. (original) An apparatus according to Claim 4, wherein said cleaner dispersing system comprises a fluid circulator operable to circulate fluid within said reservoir.

- 6. (original) An apparatus according to Claim 1, wherein said holder is suitable for holding an automotive drive train part.
- 7. (original) An apparatus according to Claim 1, wherein said cleaner dispersing system is operable to contact the metal part with an electrolyte.
- 8. (original) An apparatus according to Claim 7, further comprising a power source having a first electrode and a second electrode of opposite polarity.
- 9. (original) An apparatus according to Claim 8, wherein said first electrode is adapted to contact the metal part.
- 10. (original) An apparatus according to Claim 9, wherein said first electrode is a cathode.
- 11. (original) An apparatus according to Claim 8, wherein said holder comprises said first electrode.
- 12. (original) An apparatus according to Claim 7, wherein the disintegration additive enhances electron/ion conduction when the casting material is contacted with said electrolyte.

- 13. (original) An apparatus according to Claim 1, wherein the disintegration additive volatilizes during the process of making the casting material.
- 14. (original) An apparatus according to Claim 1, wherein said residual casting material comprises foundry sand and a binder.
- 15. (original) An apparatus according to Claim 14, wherein said foundry sand comprises a material selected from the group consisting of synthetic sand, bank sand, silica sand, and mixtures thereof.
- 16. (original) An apparatus according to Claim 14, wherein said binder comprises a material selected from the group consisting of phenolic urethane resin, clay, and mixtures thereof.
 - 17. (currently amended) An apparatus comprising:
- (a) a cast part, a surface of which is coated with residual casting material comprising a water-soluble disintegration additive;
 - (b) a holder adapted to secure said cast part; and
 - (c) a fluid tank adapted to contain cleaning fluid for cleaning said cast part.
 - 18. (original) An apparatus according to Claim 17, further comprising:
 - (d) a fluid propulsion device connected to the fluid tank; and
- (e) a spray device connected to the propulsion device and adapted to apply cleaning fluid on a surface of said cast part;

wherein the apparatus is operable to remove residual casting material from said metal part.

- 19. (original) An apparatus according to Claim 18, comprising a plurality of said spray devices.
- 20. (original) An apparatus according to Claim 18, additionally comprising a fluid recirculator operable to collect and recycle said cleaning fluid.
- 21. (original) An apparatus according to Claim 18, wherein said part is an automotive drive train part.
- 22. (original) An apparatus according to Claim 18, wherein said cleaning fluid comprises an electrolyte.
- 23. (original) An apparatus according to Claim 18, additionally comprising a power source having a first electrode and a second electrode of opposite polarity.
- 24. (original) An apparatus according to Claim 23, wherein said first electrode is configured so as to contact said metal part.
- 25. (original) An apparatus according to Claim 23, wherein said first electrode is a cathode.

- 26. (original) An apparatus according to Claim 23, wherein said holder comprises said first electrode.
- 27. (original) An apparatus according to Claim 22, wherein said disintegration additive enhances electron/ion conduction when said casting material is contacted with said electrolyte.
- 28. (original) An apparatus according to Claim 18, wherein said disintegration additive volatilizes during a process of making said metal part.
- 29. (original) An apparatus according to Claim 18, wherein said residual casting material comprises foundry sand and a binder.
- 30. (original) An apparatus according to Claim 29, wherein said foundry sand comprises a material selected from the group consisting of synthetic sand, bank sand, silica sand, and mixtures thereof.
- 31. (original) An apparatus according to Claim 29, wherein said binder comprises a material selected from the group consisting of: phenolic urethane resin, clay, and mixtures thereof.
- 32. (currently amended) A system for the production of a clean industrial part, comprising:

- (a) a casting material <u>for forming a cast</u> suitable for casting a part, comprising
 (i) foundry sand, (ii) binder, and (iii) a <u>water-soluble</u> disintegration additive wherein a portion of said casting material remains on said part after casting;
 - (b) a parts washer operable to contact said cast part with cleaning fluid.
- 33. (original) A system according to Claim 32, wherein said parts washer comprises one or more spray devices operable to apply said cleaning fluid on a surface of said cast part.
- 34. (original) A system according to Claim 32, wherein said parts washer comprises a fluid recirculator operable to collect and recycle said cleaning fluid.
- 35. (original) A system according to Claim 32, wherein said parts washer comprises a reservoir operable to immerse said cast part in said cleaning fluid.
- 36. (original) A system according to Claim 35, wherein said parts washer additionally comprises a fluid circulator operable to circulate fluid within said reservoir.
- 37. (original) A system according to Claim 32, wherein said parts washer comprises a holder operable to hold an automotive drive train part.
- 38. (original) A system according to Claim 32, wherein said cleaning fluid comprises an electrolyte.

- 39. (original) A system according to Claim 38, wherein said parts washer comprises a power source having a first electrode and a second electrode of opposite polarity.
- 40. (original) A system according to Claim 39, wherein said first electrode is configured so as to contact said cast part which is electrically conductive.
- 41. (original) A system according to Claim 39, wherein said first electrode is a cathode.
- 42. (original) A system according to Claim 39, wherein said parts washer comprises a holder for said cast part, and said holder comprises said first electrode.
- 43. (original) A system according to Claim 38, wherein said disintegration additive enhances electron/ion conduction when said casting material is contacted with said electrolyte.
- 44. (original) A system according to Claim 32, wherein said disintegration additive volatilizes from said casting material during the process of making said cast part.
- 45. (original) A system according to Claim 32, wherein said foundry sand comprises a material selected from the group consisting of: synthetic sand, bank sand, silica sand, and mixtures thereof.

- 46. (original) A system according to Claim 32, wherein said binder comprises a material selected from the group consisting of: phenolic urethane resin, clay, and mixtures thereof.
 - 47. (currently amended) A method for making a clean metal part, comprising:
- (a) casting a metal part using a mold <u>initially</u> formed using a casting material comprising (i) foundry sand, (ii) binder, and (iii) a <u>water-soluble</u> disintegration additive;
- (b) cleaning said cast metal parts using a parts washer comprising a cleaner dispensing system.
- 48. (original) A method for making a clean metal part according to Claim 47, wherein said parts washer comprises at least one spray device operable to apply cleaning fluid on a surface of said cast metal part.
- 49. (original) A method for making a clean metal part according to Claim 48, wherein said parts washer additionally comprises a fluid recirculator operable to collect and recycle said cleaning fluid.
- 50. (original) A method for making a clean metal part according to Claim 47, wherein said fluid dispersion system comprises a reservoir operable to immerse said metal part in cleaning fluid.

- 51. (original) A method for making a clean metal part according to Claim 50, wherein said fluid dispersion system comprises a fluid circulator operable to circulate said cleaning fluid within said reservoir.
- 52. (original) A method for making a clean metal part according to Claim 47, wherein said parts washer comprises a holder suitable for holding an automotive drive train part.
- 53. (original) A method for making a clean metal part according to Claim 47, wherein said parts washer is operable to contact said metal part with cleaning fluid comprising an electrolyte.
- 54. (original) A method for making a clean metal part according to Claim 53, wherein said parts washer comprises a power source having a first electrode and a second electrode of opposite polarity.
- 55. (original) A method for making a clean metal part according to Claim 54, wherein said first electrode is configured so as to contact said cast metal part.
- 56. (original) A method for making a clean metal part according to Claim 54, wherein said first electrode is a cathode.
- 57. (original) A method for making a clean metal part according to Claim 54, wherein said parts washer comprises a part holder comprising said first electrode.

- 58. (original) A method for making a clean metal part according to Clam 47, wherein said disintegration additive promotes disintegration of said foundry cast material from said cast metal part.
- 59. (original) A method for making a clean metal part according to Claim 53, wherein said disintegration additive enhances electron/ion conduction when said foundry casting material is contacted with said electrolyte.
- 60. (original) A method for making a clean metal part according to Claim 47, wherein said disintegration additive volatilizes during the process of making a cast with said foundry casting material.
- 61. (original) A method for making a clean metal part according to Claim 47, wherein said foundry sand comprises a material selected from the group consisting of synthetic sand, bank sand, silica sand, and mixtures thereof.
- 62. (original) A method for making a clean metal part according to Claim 47, wherein said binder comprises a material selected from the group consisting of phenolic urethane resin, clay, and mixtures thereof.
- 63. (original) A method for making a clean metal part according to Claim 47, wherein said cleaning step further comprises:

- (i) physically separating said cast metal part from said mold, to expose a metal part, wherein residual mold material remains on a surface of said metal part;
- (ii) attaching said metal part to a power source having a first and a second electrode of opposite polarities, wherein said first electrode contacts said metal part;
- (iii) contacting said metal part with an electrolyte, wherein said electrolyte is in contact with said second electrode; and
- (iv) generating current through said electrolyte, from said first electrode to said second electrode.
- 64. (original) A method for making a clean metal part according to Claim 63, wherein said first electrode is a cathode.
- 65. (original) A method for making a clean metal part according to Claim 63, wherein said contacting is by immersing said metal part in a reservoir of said electrolyte.
- 66. (original) A method for making a clean part according to Claim 63, wherein said contacting is by spraying said electrolyte on a surface of said metal part.